

WHAT IS CLAIMED IS:

1. A method of printing comprising:
placing a mobile computing device within a select proximity of a printer; and
sending from the mobile computing device to the printer a security key and printing instructions to enable the printer to access and print a document.
2. The method of claim 1, further comprising:
posting the document on a server as a print job for the printer; and
printing the print job only when the user activates the printer with the security key.
3. The method of claim 1, wherein the posting step further comprises:
accessing a network printing manager;
identifying the document for printing to the network printing manager; and
uploading the document to a server of the network printing manager.
4. The method of claim 3, wherein the accessing step further comprises:
providing the network printing manager as a commercial printing web site.
5. The method of claim 3, further comprising:
identifying a location of the printer associated with the network printing manager for printing the document.
6. The method of claim 1, wherein the sending step further comprises:
transmitting the security key by wireless communication including at least one of the following wireless communication protocols: infrared; Bluetooth; and WAP.
7. The method of claim 1, wherein the sending step further comprises:
transmitting computer program instructions from the mobile computing device to the printer to instruct the printer on how to print the document including a server address of the print job and the security key to authorize the printer to print the document.

8. The method of claim 7, wherein the transmitting step further comprises:
using a Java applet to transmit the printing instructions and security key; and
receiving and operating the Java applet with a Java virtual machine of the printer.
9. The method of claim 2, further comprising:
identifying the security key, which uniquely identifies the document print job, at
substantially the same time the document is posted to the server for later use of the security key
by the mobile computing device to selectively activate the printer.
10. A method of printing comprising:
carrying a document on a mobile computing device as a print job for a remote printer;
and
printing the print job on the remote printer only when the user wirelessly activates the
printer with a security key from a mobile computing device to cause transmission of the print
job to the printer and to cause printing of the print job on the printer.
11. A method of printing comprising:
posting a print job on a server for printing at a printer;
selectively delaying the printing of the print job until the printer receives printing
instructions from an authorized wireless transmission to the printer, wherein the printing
instructions command the printer to access and perform the print job.
12. The method of claim 11 wherein the delaying step further comprises:
determining whether a wireless transmission is authorized based on at least one of a
distance from a source of the wireless transmission to the printer, a time factor associated with
the printer, and a type of wireless transmission.
13. A method of printing comprising:
providing a document in computer memory as a print job for a printer; and
activating the printer to print the document with a security key within a select proximity
of the printer to retrieve the print job from the computer memory and print the print job.

14. A method of network printing comprising:
storing a document within a computing network for printing at at least one of a plurality of printers within the computing network;
identifying a mobile computing device with at least one printer within the computing network; and
sending from the mobile computing device to the at least one printer a security key and printing instructions to activate the at least one printer to retrieve and print the document.
15. A method of commercial network printing comprising:
selectively contracting with a commercial printing network to print a document at at least one of a plurality of printers within the commercial printing network;
posting a document on a server of the commercial printing network for printing on at least one of the printers in the commercial printing network;
sending from an authorized mobile computing device to at least one of the printers a security key and printing instructions to activate the at least one printer to retrieve and print the document.
16. A method of service printing comprising:
posting a service document, associated with a pre-identified consumer service, on a server of a service facility;
sending from a mobile computing device to a printer of the service facility a security key and instructions to request the pre-identified service and printing of the service document;
and
delivering the pre-identified service to the consumer by printing the service document on the printer at the service facility.
17. The method of claim 16, further comprising:
creating an airline passenger ticket as the service document to provide the service of passenger airline travel for the consumer.
18. The method of claim 17, further comprising:

expanding the service document to include printed news and entertainment information that is personal to the consumer.

19. A method of public printing comprising:
selectively contracting with a public printing service to print a document at a publicly accessible printer in a public venue;
posting the document to a server;
placing a mobile computing device within a select proximity of the public printer; and
sending from the mobile computing device to the public printer a security key and printing instructions to activate the public printer to retrieve the document from the server and print the document.

20. The method of claim 19, further comprising:
specifying the server to include at least one of a private server and a server of the public printing service.

21. A printing system comprising:
a server for holding a document for printing;
a printer connectable to the server;
a mobile computing device for holding a security key and printing instructions and having a communication module for activating the printer to print the document when the mobile computing device is within a select proximity of the printer.

22. The printing system of claim 21, wherein the communication module of the mobile computing device further comprises:
a wireless communication module for transmitting the security key and the printing instructions to the printer.

23. A network printing manager menu comprising:
a document identification field;
a document upload function;
a printer location; and

a security key field for identifying and activating a security key to selectively control printing of the document.

24. A printing system comprising:

a server for holding a print job;

a printer configured and arranged to receive a wireless transmission specifying a security key and printing instructions to activate the printer to access the print job from the server and print the print job.

25. A printer comprising:

a printing mechanism for printing a document;

a device independent program language reader;

a wireless communication module configured to receive a wireless transmission securely requesting printing a document on the printer wherein the transmission includes a security key and printing instructions given in device independent programming language to be implemented by the device independent program language reader.

26. The printer of claim 25, wherein the device independent program language reader further comprises a Java virtual machine and the device independent programming language further comprises Java programming language.

27. A mobile computing device comprising:

a controller; and

a wireless communication module configured for activating a printer to print a document by sending printing instructions and a security key to the printer.

28. The mobile computing device of claim 27 wherein the communication module further comprises:

an authorization module configured for recognizing the printer and configured for permitting printing of the document based on at least one of a distance of the mobile computing device relative to the printer, a time factor associated with the printer, and a type of wireless transmission associated with the printer.

29. A computer-readable medium having computer-executable instructions for performing a method of printing, the method comprising:

identifying a document for printing at a printer; and

sending from an authorized mobile computing device to the printer a security key and printing instructions to enable the printer to access and print a document.

30. The method of claim 29 and further comprising:

determining whether the mobile computing device is authorized based on at least one of a select proximity between a source of the wireless transmission and the printer, a time factor associated with the printer, and a type of wireless transmission.

31. The method of claim 29, and further comprising:

posting the document on a server as a print job for the printer; and

printing the print job only when the user activates the printer with the security key.

32. The method of claim 29, wherein the posting step further comprises:

accessing a network printing manager;

identifying the document for printing to the network printing manager; and

uploading the document to a server of the network printing manager.

33. The method of claim 29, wherein the sending step further comprises:

using a Java applet to send the printing instructions and security key to the printer.